

Appl. No. 10/088,727
Att. Docket No. 10191/2289
Reply To Office Action of 9/23/03

Amendments to the CLAIMS:

Without prejudice, this listing of the claims replaces all prior versions and listing of the claims in the present application:

LISTING OF CLAIMS:

- 1-15. (Canceled).
16. (Currently Amended) A display apparatus in a vehicle, comprising:
a projection unit arranged at least one of on a vehicle roof and on an inside mirror of the vehicle; and
a display surface, which is outside the projection unit, onto which a real image is projected generated by the projection unit.
17. (Currently Amended) The display apparatus according to claim 16, wherein the display surface is arranged on an instrument panel adjacent to a windshield, ~~the vehicle, in addition to on a windshield, position of the display surface on the vehicle including adjacent to the windshield on an instrument panel of the vehicle.~~
18. (Currently Amended) The display apparatus according to claim 17, wherein a structural pattern is arranged on the display surface, and ~~wherein projected~~ light is deflected by the structural pattern.
19. (Currently Amended) The display apparatus according to claim 18, wherein the ~~projected~~ light is deflected in the direction of a viewer.
20. (Currently Amended) The display apparatus according to claim 18, further comprising:
a reflective surface, arranged adjacent to the display surface, onto which ~~reflective surface the projected~~ light is deflected.
21. (Previously Presented) The display apparatus according to claim 18, wherein the

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structural pattern is configured as a roughening of the display surface.

22. (Previously Presented) The display apparatus according to claim 18, wherein a layer having a holographically introduced structure is arranged on the display surface.

23. (Previously Presented) The display apparatus according to claim 18, wherein an outer surface having at least one of a prism structure and a sawtooth structure is arranged on the display surface.

24. (Previously Presented) The display apparatus according to claim 23, wherein the display surface is of semi-spherical configuration.

25. (Currently Amended) The display apparatus according to claim 24, wherein a first image is ~~projected onto~~ generated on a first surface portion of the display surface, and a second image is ~~projected onto~~ generated on a second surface portion of the display surface.

26. (Previously Presented) The display apparatus according to claim 25, wherein the projection unit is a video projector.

27. (Previously Presented) The display apparatus according to claim 26, wherein a light source of the projection unit is a laser beam generation unit.

28. (Currently Amended) The display apparatus according to claim 27, wherein movable mirrors are arranged in the projection unit, and ~~wherein the~~ light of the laser beam generation unit ~~may be~~ is deflected by the movable mirrors.

29. (Previously Presented) The display apparatus according to claim 28, wherein multiple light sources of different colors are arranged in the projection unit.

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30. (Currently Amended) The display apparatus according to claim 29, wherein the path of the projected light from the projection unit to the display surface is at least approximately parallel to a the windshield of the vehicle.
31. (New) The display apparatus according to claim 16, wherein the display surface includes a film that allows directed emission of light and prevents light from being emitted toward the windshield.
32. (New) The display apparatus according to claim 16, wherein the display surface scatters light.
33. (New) A display apparatus in a vehicle, comprising:
 a projection unit arranged at least one of on a vehicle roof and on an inside mirror of the vehicle; and
 a display surface, which is outside the projection unit, onto which a real image is generated by the projection unit;
 wherein the projection unit includes a liquid crystal display, and the image displayed on the liquid crystal display is imaged on the display surface.
34. (New) The display apparatus according to claim 33, wherein the display surface is arranged on an instrument panel adjacent to a windshield.
35. (New) The display apparatus according to claim 34, wherein a structural pattern is arranged on the display surface, and light is deflected by the structural pattern.
36. (New) The display apparatus according to claim 35, wherein the light is deflected in the direction of a viewer.
37. (New) The display apparatus according to claim 35, further comprising:

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a reflective surface, arranged adjacent to the display surface, onto which the light is deflected.

38. (New) The display apparatus according to claim 35, wherein the structural pattern is configured as a roughening of the display surface.

39. (New) The display apparatus according to claim 35, wherein a layer having a holographically introduced structure is arranged on the display surface.

40. (New) The display apparatus according to claim 35, wherein an outer surface having at least one of a prism structure and a sawtooth structure is arranged on the display surface.

41. (New) The display apparatus according to claim 35, wherein the path of the light from the projection unit to the display surface is at least approximately parallel to the windshield of the vehicle.

42. (New) The display apparatus according to claim 35, wherein:

the display surface is of a semi-spherical configuration;

a first image is generated on a first surface portion of the display surface, and a second image is generated on a second surface portion of the display surface;

the projection unit includes a video projector;

a light source of the projection unit includes a laser beam generation unit;

movable mirrors are arranged in the projection unit, and light of the laser beam generation unit is deflected by the movable mirrors;

multiple light sources of different colors are arranged in the projection unit; and

the path of the light from the projection unit to the display surface is at least approximately parallel to the windshield of the vehicle.